

1999 Toxics Release Inventory

MARYLAND

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	12,965,131	29,981,553	42,946,684
Air Emissions	7,993,798	29,622,447	37,616,245
Surface Water Discharges	2,625,929	223,646	2,849,575
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	34,700	34,700
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	2,345,404	100,760	2,446,164
Off-site Releases (Transfers Off-site to Disposal)*	661,090	373,312	1,034,402
Total On- and Off-site Releases	13,626,221	30,354,865	43,981,086
Recycled On-site	20,289,905	18	20,289,923
Recycled Off-site	6,268,088	430,284	6,698,372
Energy Recovery On-site	11,482,923	0	11,482,923
Energy Recovery Off-site	928,230	609	928,839
Treated On-site	26,757,669	72,316,641	99,074,310
Treated Off-site**	10,083,425	8,900	10,092,325
Quantity Released On- and Off-site***	13,642,248	30,342,021	43,984,269
Total Production-related Waste Managed	89,452,488	103,098,473	192,550,961
Total Non-production-related Waste Managed	156	586	742

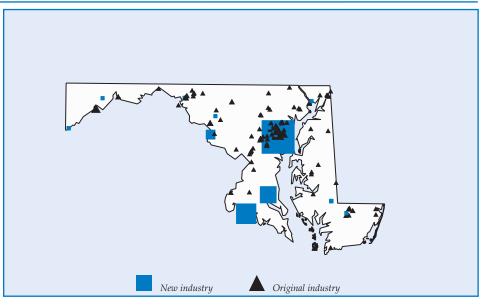
Transfers Off-site for Further Waste Management/Disposal

Total Transfers Off-site for Further Waste Management/Disposal	15,894,819	813,093	16,707,912
(not including metals to POTWs)	ŕ	ŕ	ŕ
Off-site Transfers to Disposal	593,802	373,312	967,114
Other Off-site Transfers****	0	0	0
Non-metal TRI Chemicals**	3,308,061	0	3,308,061
Metals and Metal Compounds*	87,440	0	87,440
Publicly Owned Treatment Works (POTWs)	3,395,501	0	3,395,501
Treatment	6,650,030	8,888	6,658,918
Energy Recovery	913,370	609	913,979
Recycling	4,342,116	430,284	4,772,400

- * Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- ** Transfers to POTWs of non-metals are included in treated off-site waste management activity.
- *** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.
- ****Transfers reported without a valid waste management code.

For More Information . . .

State Contact:EPA Regional Contact:To obtain TRI data usePatricia WilliamsBill Reillyassistance, call TRI User(410) 631-3800(215) 814-2072Support Service (TRI-US):Fax: (410) 631-3873Fax: (215) 814-3114(202) 260-1531E-mail: pwilliams@mde.state.md.usE-mail: reilly.william@epa.govFax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Maryland. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population			5,171,634
Square Miles			9,775
Total Facilities			195
Total Forms			676
Form As			154
(Original Industries	New Industries	Total
National Rank for Total On- and Off-site	Releases*		

National Rank for Total On- and C	Off-site Releases*		
Rank	36	24	31
Pounds	13,626,221	30,354,865	43,981,086
National Rank for Total On-site Re	eleases**		
Rank	36	24	31
Pounds	12,965,131	29,981,553	42,946,684
National Rank for Total Releases v	vithin State***		
Rank	36	24	32
Pounds	13,881,617	30,560,396	44,442,013
National Rank for Production-rela	ted Waste Managed		
Rank	36	16	33
Pounds	89,452,488	103,098,473	192,550,961

- Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- ** Includes amounts released at the facility. Excludes amounts transferred to other sites.
- *** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

			On-site R	eleases		Off-site Releases		Off-si	ite Transfers to Dispo	sal
			Surface		On-site	Transfers	Total	Transferred	Transferred	Transferred
CAS		Air	Water	Underground	Releases to	Off-site to	Releases in	Into	Within	Out of
Number	Chemical	Emissions	Discharges	Injection	Land	Disposal*	the State**	State	State	State
		Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
	Nitrate compounds	10	2,402,455	0	84,731	9,955	2,497,151	0	9,949	6
	Manganese compounds	28,446	159,899	0	2,088,030	35,068	2,311,443	3,405	26,890	8,178
463-58-1	Carbonyl sulfide	1,594,000	0	0	0	0	1,594,000	0	0	0
100-42-5	Styrene	930,866	0	0	0	277	931,143	0	0	277
67-56-1	Methanol	839,628	19,950	0	0	66	859,644	102	66	0
7647-01-0	Hydrochloric acid	558,557	0	0	0	0	558,557	6,180	0	0
1330-20-7	Xylene (mixed isomers)	516,801	0	0	0	0	516,801	760	0	0
7664-41-7	Ammonia	441,231	24,099	0	17,960	3,480	486,770	255	2,628	852
7664-93-9	Sulfuric acid	444,337	0	0	0	0	444,337	5	0	0
	Glycol ethers	384,300	0	0	5	232	384,537	1,250	232	0

Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

			On-site Re	leases		Off-site Releases		Off-site Transfers to				
			Surface		On-site	Transfers	Total	Transferred	Transferred	Transferred		
CAS		Air	Water	Underground	Releases to	Off-site to	Releases in	Into	Within	Out of		
Number	Chemical	Emissions	Discharges	Injection	Land	Disposal*	the State**	State	State	State		
		Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds		
7647-01-0	Hydrochloric acid	24,863,671	0	0	0	0	24,863,671	0	0	0		
7664-93-9	Sulfuric acid	3,253,552	0	0	0	0	3,253,552	0	0	0		
7664-39-3	Hydrogen fluoride	1,329,877	0	0	0	0	1,329,877	0	0	0		
7440-39-3	Barium	3,965	54,400	0	7,300	184,000	249,665	150,000	184,000	0		
7439-96-5	Manganese	2,500	138,100	0	2,200	48,000	190,800	18,000	48,000	0		
	Zinc compounds	6,706	787	10,800	12,900	46,296	77,489	1,952	46,291	5		
7440-47-3	Chromium	1,500	20,250	0	1,350	32,000	55,100	0	32,000	0		
7440-38-2	Arsenic	835	500	0	500	51,000	52,835	0	51,000	0		
	Barium compounds	1,863	195	1,400	48,500	0	51,958	463	0	0		
7440-02-0	Nickel	38,250	1,400	0	250	12,000	51,900	0	12,000	0		

Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.
 The chemical ranking is based on the amounts in this column.

^{**} The chemical ranking is based on the amounts in this column.

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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

				Off-site R (Transfers Off-sit					
			<u>Undergrou</u>	nd Injection	On-site Re	eases to Land			
Facility, City, County	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds	Total On-site Releases* Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
Millennium Inorganic Chemicals Inc Hawkins Point Plant, Baltimore, Baltimore City	1,141,515	140,000	0	0	0	1,200,000	2,481,515	0	0
Grace Davison, Baltimore, Baltimore City	268,406	1,339,800	0	0	0	0	1,608,206	13,953	9,441
Westvaco Corp. Fine Papers Div., Luke, Allegany	1,527,179	0	0	0	0	8,064	1,535,243	244,670	95
Bethlehem Steel Corp Sparrows Point Div., Sparrows Point, Baltimore	110,700	33,505	0	0	0	1,023,200	1,167,405	0	7,060
Chemetals Inc. Baltimore Plant, Baltimore, Baltimore City	22,243	988,179	0	0	0	23,889	1,034,311	58	0
Eastalco Aluminum Co., Frederick, Frederick	600,600	40	0	0	0	1,000	601,640	755	0
GM North American Truck Group Baltimore, Baltimore, Baltimore City	453,040	903	0	0	0	0	453,943	220	1,961
Garden State Tanning Inc. W. D. Byron Plant, Williamsport, Washington	291,471	62,412	0	0	0	5	353,888	25,540	58,381
Lehigh Portland Cement Co., Union Bridge, Carroll	307,005	0	0	0	0	1,005	308,010	0	0
Terumo Medical Corp., Elkton, Cecil	300,876	0	0	0	0	0	300,876	0	0

^{*}The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

				Off-site Releases (Transfers Off-site to Disposal)					
			Undergrou	nd Injection_	On-site Re	eases to Land			
	Air	Surface Water	Class I	Class II-V	RCRA Subtitle C	Other On-site Land	Total On-site	Transferred	Transferred
Facility, City, County	Emissions	Discharges	Wells	Wells	Landfills	Releases	Releases*	Within State	Out of State
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Brandon Shores & Wagner Complex, Baltimore, Anne Arundel	12,569,228	5,165	0	0	0	20,510	12,594,903	0	0
Pepco Morgantown Generating Station, Newburg, Charles	6,905,795	104,150	0	0	0	3,100	7,013,045	156,000	0
Chalk Point Generating Station, Aquasco, Prince Georges	5,493,125	38,000	0	0	0	2,200	5,533,325	154,000	0
Dickerson Generating Station, Dickerson, Montgomery	2,331,755	73,000	0	0	0	6,800	2,411,555	62,000	0
C. P. Crane Generating Station, Baltimore, Baltimore City	1,887,944	72	0	0	0	0	1,888,016	0	0
R. Paul Smith Power Station, Williamsport, Washington	192,292	140	0	0	0	26,000	218,432	0	0
Vienna Power Plant, Vienna, Dorchester	162,558	0	0	0	0	0	162,558	0	0
Mettiki Coal L.L.C, Oakland, Garrett	6,478	1,515	0	34,700	0	42,150	84,843	0	0
Baltimore Terminal, Baltimore, Baltimore City	37,957	0	0	0	0	0	37,957	16	0
Citgo Petroleum Corp., Baltimore, Baltimore City	10,834	0	0	0	0	0	10,834	0	0

^{*}The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Millennium Inorganic Chemicals Inc Hawkins Point Plant, Baltimore, Baltimore City	0	0	0	0	3,700,215	0	2,481,515	6,181,730	0
Westvaco Corp. Fine Papers Div., Luke, Allegany	0	1	9,132,800	200	2,508,000	2,612,815	1,780,008	16,033,824	0
Grace Davison, Baltimore, Baltimore City	2,972,700	30,524	0	0	4,708,560	440	1,631,417	9,343,641	0
Bethlehem Steel Corp Sparrows Point Div., Sparrows Point, Baltimore	0	0	0	0	0	0	1,168,200	1,168,200	0
Chemetals Inc. Baltimore Plant, Baltimore, Baltimore City	1,429,440	0	0	0	200	0	1,034,368	2,464,008	0
Eastalco Aluminum Co., Frederick, Frederick	13,000,000	2,134,000	0	0	2,443,000	0	600,300	18,177,300	0
GM North American Truck Group Baltimore, Baltimore, Baltimore City	0	422,457	0	142	86,766	5,291	481,242	995,898	0
Garden State Tanning Inc. W. D. Byron Plant, Williamsport, Washington	0	80,236	0	0	335,646	0	415,227	831,109	0
Lehigh Portland Cement Co., Union Bridge, Carroll	0	1,000	0	0	0	0	307,100	308,100	0
Terumo Medical Corp., Elkton, Cecil	0	0	0	0	0	50,795	300,876	351,671	0

^{*}The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

			Energy	Energy			Quantity	Total Production-	Total Non- Production-
	Recycled	Recycled	Recovery	Recovery	Treated	Treated	Released On-	related Waste	related Waste
Facility, City, County	On-site	Off-site	On-site	Off-site	On-site	Off-site	and Off-site*	Managed	Managed
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
Brandon Shores & Wagner Complex, Baltimore, Anne Arundel	0	0	0	0	0	0	12,595,210	12,595,210	0
Pepco Morgantown Generating Station, Newburg, Charles	0	0	0	0	1,014,000	0	7,167,004	8,181,004	0
Chalk Point Generating Station, Aquasco, Prince Georges	0	0	0	0	67,783,000	0	5,683,005	73,466,005	0
Dickerson Generating Station, Dickerson, Montgomery	0	0	0	0	3,209,000	0	2,470,000	5,679,000	0
C. P. Crane Generating Station, Baltimore, Baltimore City	0	0	0	0	0	0	1,888,020	1,888,020	0
R. Paul Smith Power Station, Williamsport, Washington	0	0	0	0	0	0	218,000	218,000	0
Vienna Power Plant, Vienna, Dorchester	0	0	0	0	0	0	162,558	162,558	0
Mettiki Coal L.L.C, Oakland, Garrett	0	0	0	0	43,000	0	84,000	127,000	0
Baltimore Terminal, Baltimore, Baltimore City	0	0	0	609	137,427	5,695	37,955	181,686	0
Citgo Petroleum Corp., Baltimore, Baltimore City	0	0	0	0	0	0	10,835	10,835	0

^{*}The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.